

Performance of Structures During the Oct. 12, 1992 Cairo Earthquake

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Abstract:

On October 12, 1992 at 3:25 PM, Cairo, Egypt was shaken by an earthquake which registered a Richter magnitude of 5.6. This paper outlines the seismic activity zones in Egypt and the seismic damage of structures caused by the October 1992 Cairo earthquake. The performance of wall-bearing structures, reinforced concrete frames, bridges and schools is evaluated. The Egyptian Code for earthquake resistant design is explained by the Equivalent Static Load Approach and Dynamic Response Analysis.

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